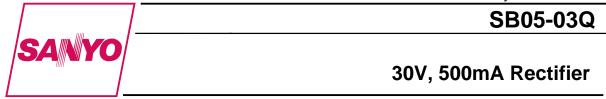
Schottky Barrier Diode



## Applications

• High frequency rectification (switching regulators, converters, choppers).

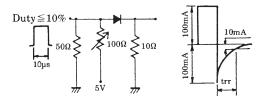
## **Features**

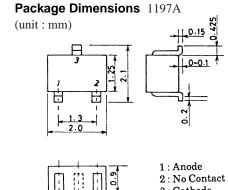
- Low forward voltage (V<sub>F</sub> max=0.55V).
- Fast reverse recovery time (trr max=10ns).
- Low switching noise.
- Low leakage current and high reliability due to highly reliable planar structure.
- Ultrasmall-sized package, permitting SB05-03Q-applied sets to be compact and slim.

Absolute Maximum Ratings at Ta=25°C unit						
Repetitive Peak Reverse Voltage	V <sub>RRM</sub>			30	V	
Nonrepetitive Peak	V <sub>RSM</sub>			35	V	
Reverse Surge Voltage						
Average Output Current	Io			500	mA	
Surge Forward Current	IFSM	50Hz sine wave, 1 cycle		3	А	
Junction Temperature	Tj		-55 to +125		°C	
Storage Temperature	Tstg		-55 to +125		°C	
Electrical Characteristics at Ta=25°C			min	typ	max	unit
Reverse Voltage V	<sup>7</sup> R	$I_R=150\mu A$	30			V
Forward Voltage V	′F	IF=500mA			0.55	V
Reverse Current I	R	V <sub>R</sub> =15V			30	μA
Interterminal Capacitance C	2	V <sub>R</sub> =10V, f=1MHz		16		pF
Reverse Recovery Time th	rr	$I_F = I_R = 100 \text{mA},$			10	ns
		See specified Test Circuit.				
Thermal Resistance F	Rth(j-a)			600		°C/W

Marking : Q

## trr Test Circuit



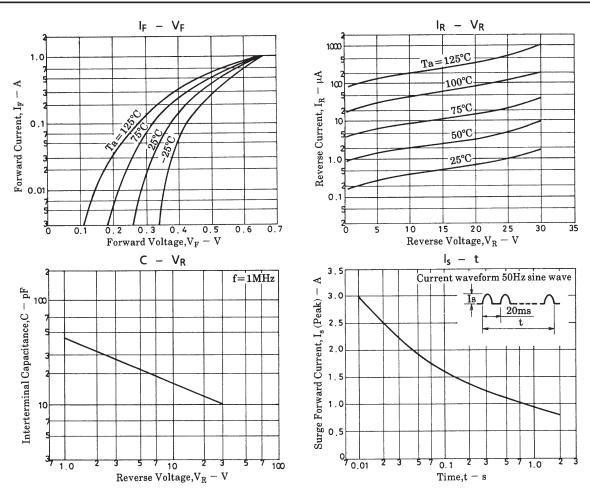


3 : Cathode <u>0.3</u> SANYO : MCP

## SANYO Electric Co., Ltd. Semiconductor Bussiness Headquarters TOKYO OFFICE Tokyo Bldg., 1-10, 1 Chome, Ueno, Taito-ku, TOKYO, 110 JAPAN

Downloaded from  $\underline{\text{Elcodis.com}}$  electronic components distributor

61197GI/41894YK (KOTO) 8-7188 No.3867-1/2



- No products described or contained herein are intended for use in surgical implants, life-support systems, aerospace equipment, nuclear power control systems, vehicles, disaster/crime-prevention equipment and the like, the failure of which may directly or indirectly cause injury, death or property lose.
- Anyone purchasing any products described or contained herein for an above-mentioned use shall:

  Accept full responsibility and indemnify and defend SANYO ELECTRIC CO., LTD., its affiliates, subsidiaries and distributors and all their officers and employees, jointly and severally, against any and all claims and litigation and all damages, cost and expenses associated with such use:
  - ② Not impose any responsibility for any fault or negligence which may be cited in any such claim or litigation on SANYO ELECTRIC CO., LTD., its affiliates, subsidiaries and distributors or any of their officers and employees jointly or severally.
- Information (including circuit diagrams and circuit parameters) herein is for example only; it is not guaranteed for volume production. SANYO believes information herein is accurate and reliable, but no guarantees are made or implied regarding its use or any infringements of intellectual property rights or other rights of third parties.

This catalog provides information as of June, 1997. Specifications and information herein are subject to change without notice.